



# Performance you can depend on when you switch T12 to LED

**Philips InstantFit LED T8 electro-magnetic compatible lamps** are an ideal way to easily upgrade T12 fluorescent fixtures to energy-saving LED.

## Benefits

- 50% energy savings v/s F40T12 rapid-start magnetic systems<sup>1</sup>
- Can be used in food areas and refrigerated food displays
- Convert to LED technology without the need to re-wire the fixture<sup>2</sup>
- Long life (36,000 hours<sup>3</sup>) v/s F40T12 rapid-start lamps (20,000 hrs)
- Can be switched "on/off" frequently
- 3-year limited warranty<sup>4</sup>
- Elegant T8 form factor can upgrade the look of your fixture.
- Light distribution that uniformly illuminates the work surface.
- No Mercury, allowing for non-hazardous waste disposal

## Features

- Compatible with a wide range of rapid-start magnetic ballasts designed for T12 fluorescent lamps<sup>5</sup>
- Glass construction in a T8 form factor
- Fits into the existing T12 sockets
- Contains no Mercury
- NSF certified
- Low temperature operation (down to -4 F or -20C)
- Negligible UV radiation (less than 1 uW/lm for wavelengths shorter than 425 nm)
- 240 degree beam angle

# Philips InstantFit LED T8 electro-magnetic ballast compatible

## Ordering, electrical and technical data (Subject to change without notice)

Product No.	Model No.	Ordering Code	Volts (Depending on Ballast)	Base	CRI	Color Temp. (K)	LED Lifetime (hrs.) <sup>3</sup>	MOL (In.)	Beam Angle
<b>InstantFit LED T8 EM compatible - 4' glass</b>									
46311-7	9290012265	20T12 EM LED/48-4000 IF G	120-277, 347	G13	83	4000	36,000	48	240°
46312-5	9290012266	20T12 EM LED/48-6500 IF G	120-277, 347	G13	83	6500	36,000	48	240°

Product No.	Bare Lamp Watts (W)	Average System Watts (W)			Initial Lumens <sup>6</sup>		
		Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)	Low Ballast Factor (0.78)	Normal Ballast Factor (0.88)	High Ballast Factor (1.18)
InstantFit LED T8 EM compatible - 4' glass							
46311-7	20	20	23	31	1850	2100	2800
46312-5	20	20	23	31	1850	2100	2800

Suitable for use in fixtures where ambient temperature is between -4°F (-20°C) and 113°F (45°C).

- (1) Lamp F40T12 Rapid-Start System = 52 System Watts; (1) Philips LED InstantFit T8 = 26 System Watts; 52 - 26 = 26 System Watts Saved; 26/52 = 50% Energy Saved.
- Please follow the guidelines for installation from Philips Installation Guide included with lamp shipment.
- LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70).
- For more information on Philips' limited warranty please visit [www.philips.com/warranties](http://www.philips.com/warranties).
- Please refer to [www.philips.com/instantfit](http://www.philips.com/instantfit) for the latest ballast compatibility guide.
- Based on photometric testing consistent with IES LM-79.

## System wattage of the Philips InstantFit T8 vs a comparable linear T12\*

Ballast Model No.	Manufacturer	System Voltage	No. of Lamps	System Power (W) T12 Fluorescent	System Power (W) T8 LED	Energy Savings (%)
R-140-1-TP	Philips - Advance	120	1	52.1	26.1	50.0%
RL-140-TP	Philips - Advance	120	1	32.8	25.6	21.7%
R-2S40-1-TP	Philips - Advance	120	2	88.9	47.1	47.0%
XQM-2S40-TP	Philips - Advance	220	2	95.5	51.9	45.6%
V-2S40-1-TP	Philips - Advance	277	2	90.2	45.3	49.8%
RQM-2S40-3-TP	Philips - Advance	120	2	86.9	46.4	46.6%
R-2S34-TP-5	Philips - Advance	120	2	81.1	41.5	48.8%
V-2S34-TP	Philips - Advance	277	2	79.2	42.6	46.3%
RM-2S35-TP	Philips - Advance	120	2	60.9	41.2	32.4%

\* Measured data provided as a reference. System power may vary depending on ballast manufacturer & ballast age. Please refer to [www.philips.com/instantfit](http://www.philips.com/instantfit) for the latest ballast compatibility guide.

## Shipping data (Subject to change without notice)

Product Number	SKU UPC (0-46677)	Outer Bar Code (5-00-46677)	Case Qty.	Case Weight (lbs.)	Case Cube (cu. Ft.)	Pallet Qty	Lamps/ SKU	SKUs per Layer	Layers High	SKU Dimensions (L x W x H) (In.)	Case Dimensions (L x W x H) (In.)	Pallet Dimensions (L x W x H) (In.)
<b>InstantFit LED T8 EM compatible - 4' glass</b>												
46311-7	46311-3	46311-8	10	6.26	1.06	360	1	40	9	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4
46312-5	46312-0	46312-5	10	6.26	1.06	360	1	40	9	1.1 x 1.1 x 48.0	49.8 x 8.8 x 4.2	51.2 x 39.4 x 43.4



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